AMENDMENT UNDER 37 C.F.R. § 1.111 Application No.: 10/542,288 Attorney Docket No.: Q88876

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

(original): A Doherty amplifier having: 1.

a carrier amplifier which is performing a signal amplifying operation at all times irrespective of an input signal level;

a peak amplifier which performs an amplifying operation only when the input signal level increases to a certain level or higher to generate high power;

an output combiner circuit for combining the outputs of said carrier amplifier and said peak amplifier to deliver a combined output; and

an input branching circuit for distributing an input signal to said carrier amplifier and to said peak amplifier,

said Doherty amplifier characterized by comprising:

a first pre-distortion compensation circuit disposed at a stage previous to said carrier amplifier and having such characteristics that compensate said carrier amplifier for a distortion characteristically produced on the operation of said carrier amplifier; and

a second pre-distortion compensation circuit disposed at a stage previous to said peak amplifier and having such characteristics that compensate said peak amplifier for a distortion characteristically produced on the operation of said peak amplifier.

AMENDMENT UNDER 37 C.F.R. § 1.111 Application No.: 10/542,288 Attorney Docket No.: Q88876

2. (canceled)

3. (canceled)

(original): The Doherty amplifier according to claim 1, wherein the distortion 4.

compensated for by said first and second pre-distortion compensation circuits is an amplitude-

phase distortion.

5. (canceled)

(original): A method of compensating a Doherty amplifier for a distortion 6.

characteristic, said Doherty amplifier having a carrier amplifier which is performing a signal

amplifying operation at all times irrespective of an input signal level, a peak amplifier which

performs an amplifying operation only when the input signal level increases to a certain level or

higher to generate high power, an output combiner circuit for combining the outputs of said

carrier amplifier and said peak amplifier to deliver a combined output, and an input branching

circuit for distributing an input signal to said carrier amplifier and to said peak amplifier, said

method comprising the steps of:

distributing an input signal to said carrier amplifier and to said peak amplifier by

said input branching circuit;

compensating a signal distributed to said carrier amplifier by said input branching

circuit for a distortion characteristically produced on the operation of said carrier amplifier;

3

AMENDMENT UNDER 37 C.F.R. § 1.111

Application No.: 10/542,288

Attorney Docket No.: Q88876

compensating a signal distributed to said peak amplifier by said input branching

circuit for a distortion characteristically produced on the operation of said peak amplifier;

amplifying the signal by said carrier amplifier after the signal has been

compensated for the distortion characteristically produced on the operation of said carrier

amplifier;

amplifying the signal by said peak amplifier after the signal has been

compensated for the distortion characteristically produced on the operation of said peak

amplifier; and

combining the outputs of said carrier amplifier and said peak amplifier to deliver

a combined output.

7. (canceled)

8. (canceled)

(original): The method of compensating a Doherty amplifier for a distortion 9.

characteristic according to claim 6, wherein the distortion characteristically produced on the

operation of said carrier amplifier and the distortion characteristically produced on the operation

of said peak amplifier are amplitude-phase distortions.

10. (canceled)

4

AMENDMENT UNDER 37 C.F.R. § 1.111 Application No.: 10/542,288

Attorney Docket No.: Q88876

11. (canceled)